# Instructions for
# FOTG 382 Fence Drawings

Nebraska Standard Drawings included in this file:
NE500-10-001, NE500-10-002, NE500-10-003, NE500-20-001,
NE500-30-001, NE500-40-001, NE500-40-002, NE500-40-003,
NE500-50-001, NE500-60-001, NE500-60-002, NE500-60-003
Drawings new: 07/01 Revised: 12-06

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Fill in the following data fields to automatically fill in the necessary data fields on the drawings. Enter sheet numbers directly on each drawing.

**Title block**

Title line(s)

Subtitle line

County, State

Job Class

Add sheet numbering directly on drawings.
Add Wood Species directly on line provided on drawings.
Add Special Instructions directly on lines provided on drawings.

**Who / When**

| | ( INITIALS ) | DATE ( Enter like 11/21/01 ) |
|---|---|---|
| Designed | | |
| Drawn | | |
| Checked | | |

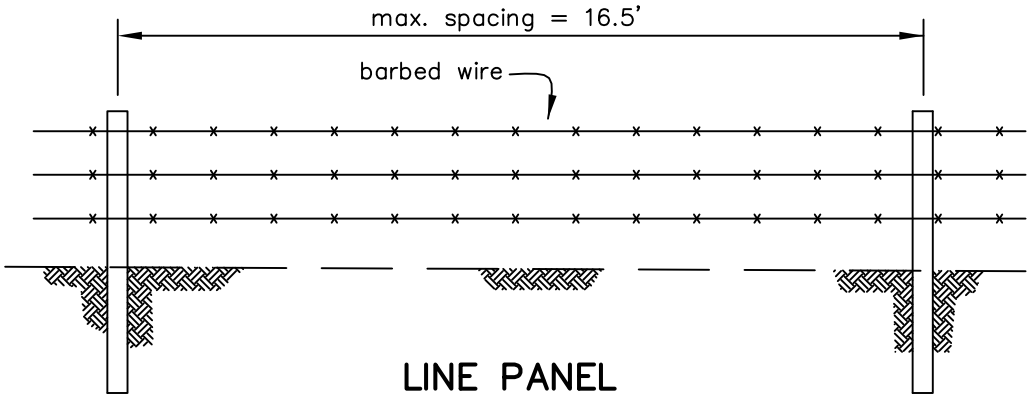
**CLEAR ALL DATA FIELDS**

**PRINT**

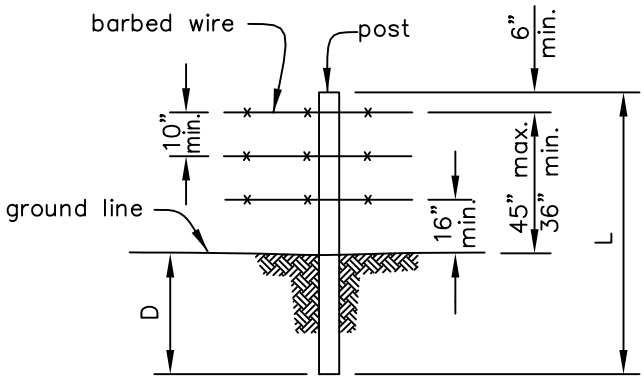
Note:

When printing, the default is set to print all pages. To print pages individually, get desired drawing in view window and click print icon on toolbar. Select current page in the Print Range information in print dialog box. Then click OK button.

| NEBRASKA STANDARD DRAWING | 3 STRAND STANDARD POST AND WIRE FENCE | STANDARD DRAWING NO. NE500–10–001<br>APPROVED BY: TGH<br>DRAWN BY: RXS<br>Drawing revised: 12/06 |
|---|---|---|




LINE PANEL




BARBED WIRE DETAIL

**BARBED WIRE**

Min. line wire diameter:
12.5 gauge conventional or
15.5 gauge high tensile.

2 twisted strands with 14 gauge or heavier two–point barbs on 5 inch or less centers (min.).

Type Z, Class 1 (min. or equiv.) zinc–coating as per ASTM A121.

**LINE**

Wood: L = 6 1/2 ft. min.
D = 2 1/2 ft. min.
Dia. = 3 in. min.

Fiberglass: L = 6 ft. min.
D = 18 in. min.
Dia. = 1 1/4 in. min.

Steel: L = 6 ft. min.
D = 18 in. min.
Standard "T" or "U"; > 1.33 lbs/ft of length

**CORNER OR GATE**

Wood: L = 8 ft. min.
D = 3 1/2 ft. min.
Dia. = 5 in. min.

Steel: L = 7 ft. min.
D = 3 ft. min. (set in conc.)
Dia. = Round 2 3/8 in. O.D. or
Angle iron 2 1/2 x 2 1/2 x 1/4 (in.)

SPECIES for all wood: _____

SPECIAL INSTRUCTIONS

_____

_____

_____

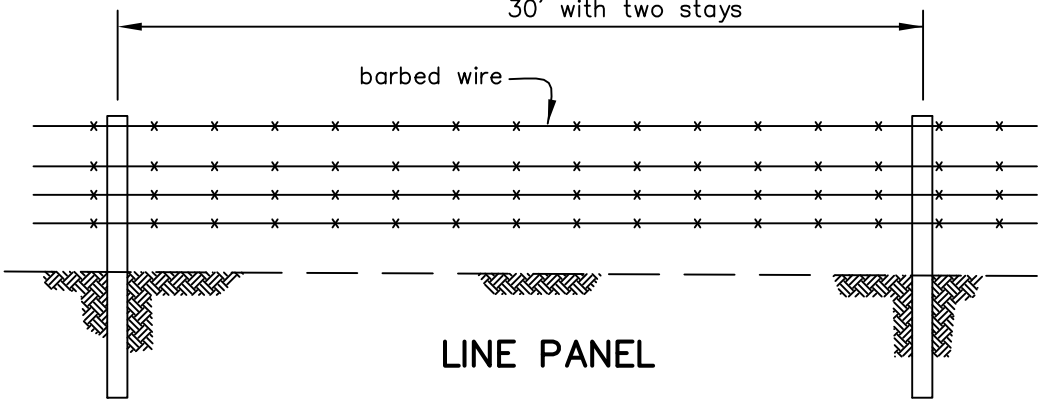
_____

Modified from Washington LSK–0012.dwg

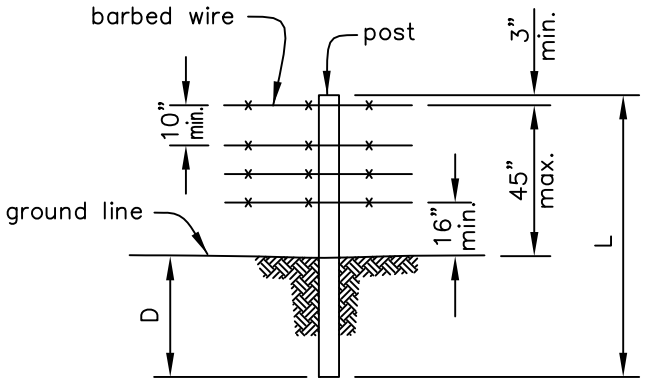
Drawing not to scale. Standardized drawing must be adapted to the specific site.

| | JOB CLASS | Date |
|---|---|---|
| | CAD FILE NO. NE500–10–001.dwg | Designed _____ _____ |
| | SHEET OF | Drawn _____ _____ |
| | | Checked _____ _____ |
| U.S.D.A. – NATURAL RESOURCES CONSERVATION SERVICE | | Approved _____ _____ |

| NEBRASKA STANDARD DRAWING | 4 STRAND STANDARD POST AND WIRE FENCE | STANDARD DRAWING NO. NE500–10–002<br>APPROVED BY: TGH<br>DRAWN BY: RXS<br>Drawing revised: 12/06 |
|---|---|---|




LINE PANEL




BARBED WIRE DETAIL

**BARBED WIRE**

Min. line wire diameter:
12.5 gauge conventional or
15.5 gauge high tensile.

2 twisted strands with 14 gauge or heavier two–point barbs on 5 inch or less centers (min.).

Type Z, Class 1 (min. or equiv.) zinc–coating as per ASTM A121.

**LINE**

Wood: L = 6 1/2 ft. min.
D = 2 1/2 ft. min.
Dia. = 3 in. min.

Fiberglass: L = 6 ft. min.
D = 18 in. min.
Dia. = 1 1/4 in. min.

Steel: L = 6 ft. min.
D = 18 in. min.
Standard "T" or "U"; > 1.33 lbs/ft of length

**CORNER OR GATE**

Wood: L = 8 ft. min.
D = 3 1/2 ft. min.
Dia. = 5 in. min.

Steel: L = 7 ft. min.
D = 3 ft. min. (set in conc.)
Dia. = Round 2 3/8 in. O.D. or
Angle iron 2 1/2 x 2 1/2 x 1/4 (in.)

**STAYS**

Wood: 1 1/2 in. dia. min. of durable wood
Fiberglass: Any manufactured for this purpose
Wire: 9.5 gauge, zinc coated, twisted, manufactured for this purpose

SPECIES for all wood: _____

SPECIAL INSTRUCTIONS

_____

_____

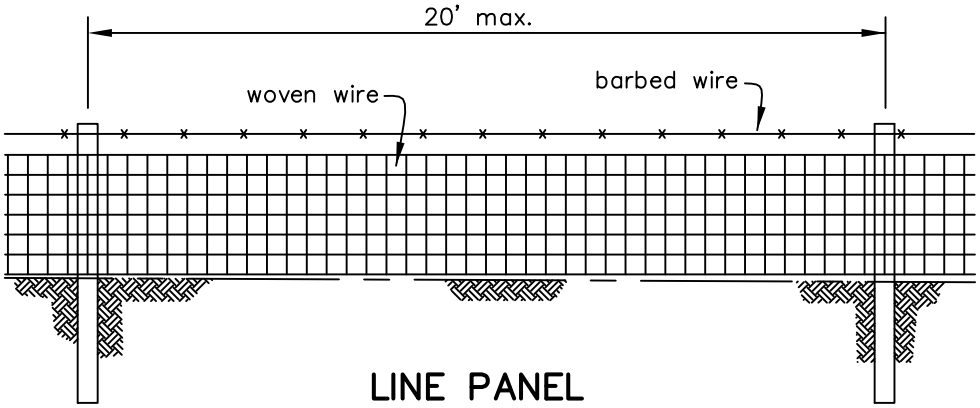
_____

Modified from Washington LSK–0010.dwg

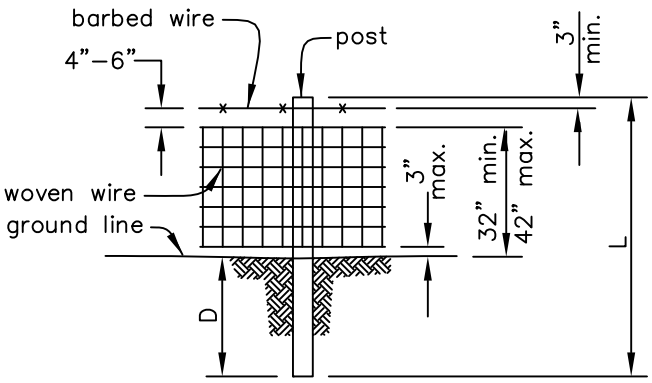
Drawing not to scale. Standardized drawing must be adapted to the specific site.

| | JOB CLASS | Date |
|---|---|---|
| | CAD FILE NO. NE500–10–002.dwg | Designed _____ _____ |
| | SHEET OF | Drawn _____ _____ |
| | | Checked _____ _____ |
| U.S.D.A. – NATURAL RESOURCES CONSERVATION SERVICE | | Approved _____ _____ |

| NEBRASKA STANDARD DRAWING | WOVEN WIRE FENCE | STANDARD DRAWING NO. NE500–10–003<br>APPROVED BY: TGH<br>DRAWN BY: RXS<br>Drawing revised: 12/06 |
|---|---|---|




LINE PANEL




WOVEN WIRE W/ONE BARB DETAIL

**WOVEN WIRE**

Top and bottom wires shall be 12.5 gauge or heavier and line and stay wires shall be 14.5 gauge or heavier.

Type Z, Class 1 (min. or equiv.) zinc–coating as per ASTM A116.

The label shall indicate the woven wire meets ASTM A116 requirements.

**BARBED WIRE**

Min. line wire diameter: 12.5 gauge conventional or 15.5 gauge high tensile.

2 twisted strands with 14 gauge or heavier two–point barbs on 5 inch or less centers (min.).

Type Z, Class 1 (min. or equiv.) zinc–coating as per ASTM A121.

| | | | | |
|---|---|---|---|---|
| LINE | Wood: | L = 6 1/2 ft. min.<br>D = 2 1/2 ft. min.<br>Dia. = 3 in. min. | Steel: | L = 6 ft. min.<br>D = 18 in. min.<br>Standard "T" or "U"; ≥ 1.33 lbs/ft of length |
| CORNER OR GATE | Wood: | L = 8 ft. min.<br>D = 3 1/2 ft. min.<br>Dia. = 5 in. min. | Steel: | L = 7 ft. min.<br>D = 3 ft. min. (set in conc.)<br>Dia. = Round 2 3/8 in. O.D. or Angle iron 2 1/2 x 2 1/2 x 1/4 (in.) |

SPECIES for all wood: _____

SPECIAL INSTRUCTIONS

_____

_____

_____

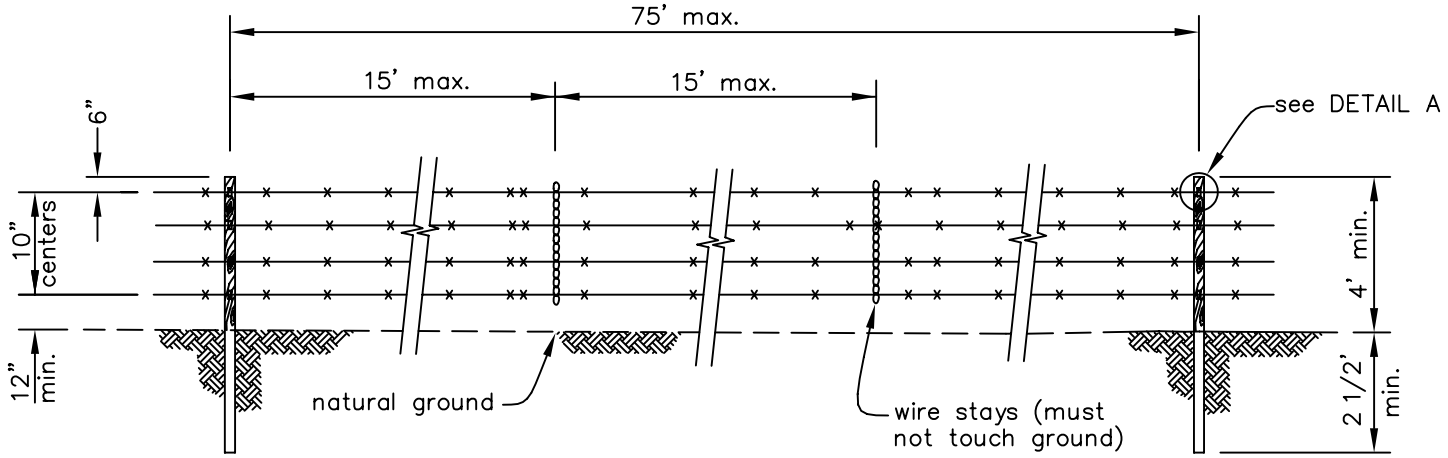
_____

Drawing not to scale. Standardized drawing must be adapted to the specific site.

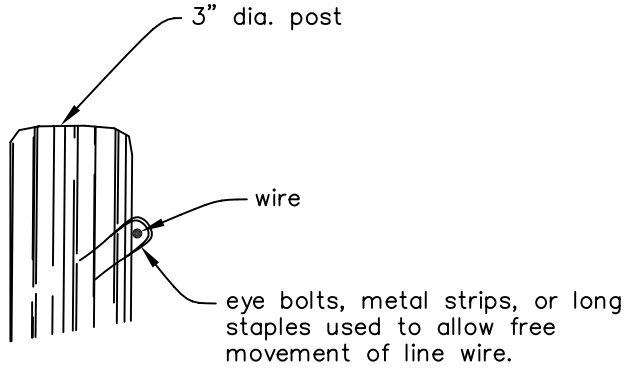
Modified from Washington LSK–0020.dwg

| | JOB CLASS | Date |
|---|---|---|
| | CAD FILE NO. NE500–10–003.dwg | Designed _____ _____<br>Drawn _____ _____ |
| | SHEET OF | Checked _____ _____ |
| U.S.D.A. – NATURAL RESOURCES CONSERVATION SERVICE | | Approved _____ _____ |

| NEBRASKA STANDARD DRAWING | SUSPENSION FENCE | STANDARD DRAWING NO. NE500–20–001<br>APPROVED BY: TGH<br>DRAWN BY: RXS<br>Drawing revised: 12/06 |
|---|---|---|




ELEVATION VIEW




DETAIL A

RECOMMENDATIONS ON FASTENERS FOR TREATED WOOD

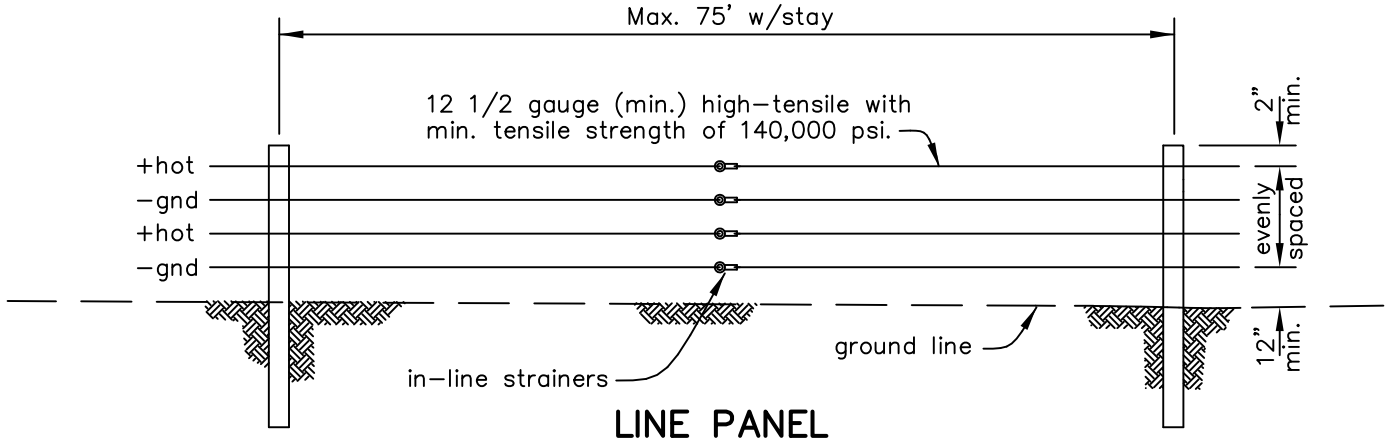
Fasteners for ACQ or CA treated wood should be galvanized in accordance with ASTM A153. Stainless steel can still be used for maximum service life.

Modified from Washington LSK–0230.dwg

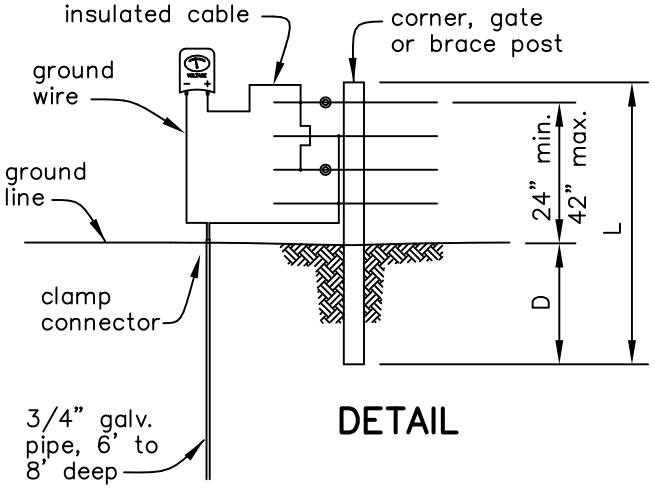
Drawing not to scale. Standardized drawing must be adapted to the specific site.

| | JOB CLASS | Date |
|---|---|---|
| | CAD FILE NO. NE500–20–001.dwg | Designed _____ _____<br>Drawn _____ _____ |
| | SHEET OF | Checked _____ _____ |
| U.S.D.A. – NATURAL RESOURCES CONSERVATION SERVICE | | Approved _____ _____ |

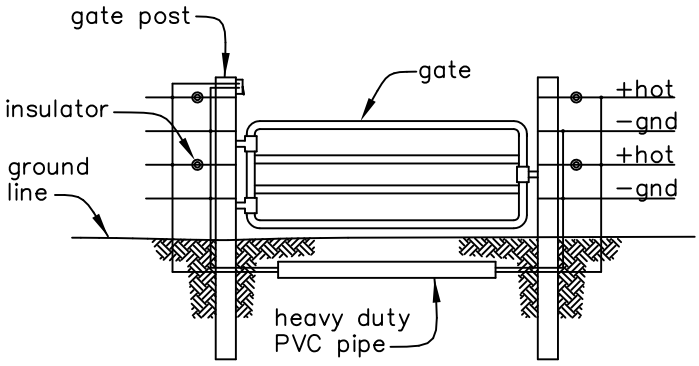
| NEBRASKA STANDARD DRAWING | PERMANENT ELECTRIC FENCE | STANDARD DRAWING NO. NE500–30–001<br>APPROVED BY: TGH<br>DRAWN BY: RXS<br>Drawing revised: 9/07 |
|---|---|---|




## LINE PANEL

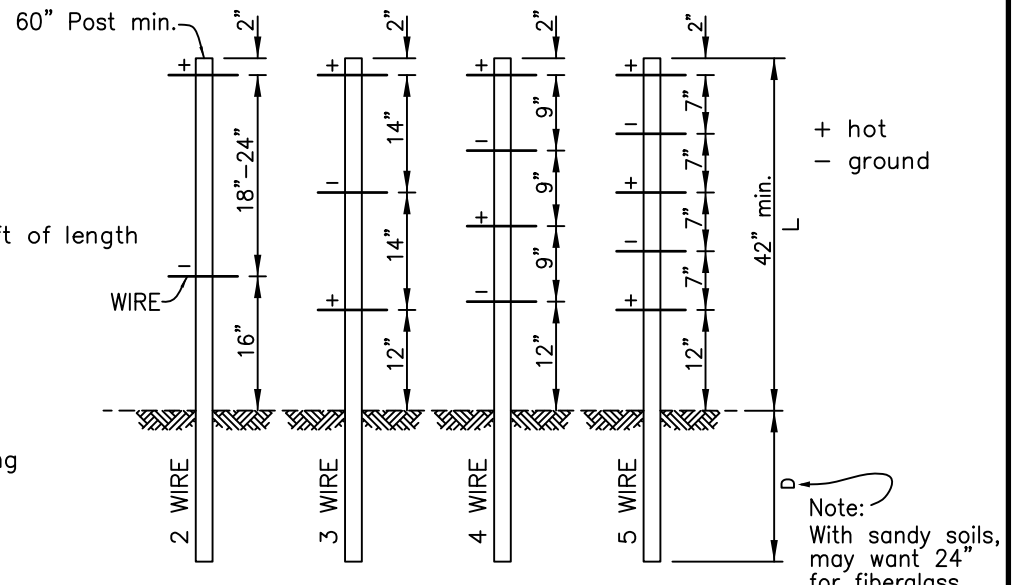



## DETAIL




## ROAD CROSSING DETAIL

## SPACING AND POLARITY




### LINE

Wood:
- L = 6 1/2 ft. min.
- D = 2 1/2 ft. min.
- Dia. = 3 in. min.

Steel:
- L = 6 ft. min.
- D = 18 in. min.
- Standard "T" or "U"; > 1.33 lbs/ft of length

Fiberglass:
- L = 6 ft. min.
- D = 18 in. min.
- Dia. = 11/16 in. min.

### WIRE

Type I (min. or equiv.) zinc coating as per ASTM A854.

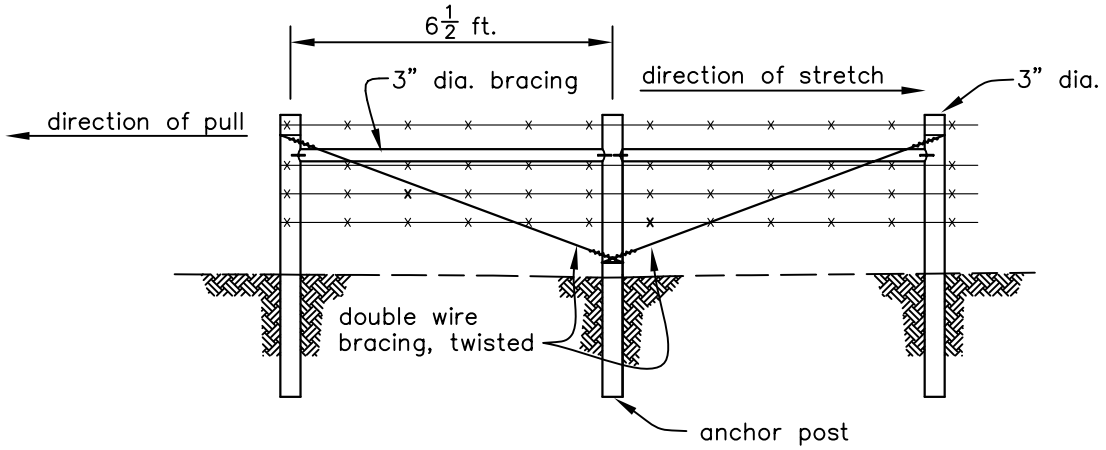
SPECIAL INSTRUCTIONS:

Drawing not to scale. Standardized drawing must be adapted to the specific site.

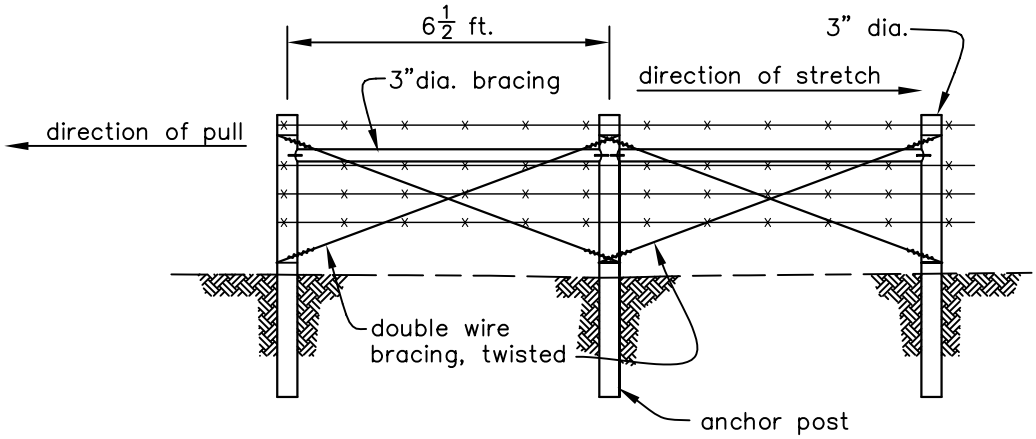
Modified from Washington LSK–0240.dwg

| | JOB CLASS | Date |
|---|---|---|
| | CAD FILE NO. NE500–30–001.dwg | Designed |
| | SHEET OF | Drawn |
| | | Checked |
| U.S.D.A. – NATURAL RESOURCES CONSERVATION SERVICE | | Approved |

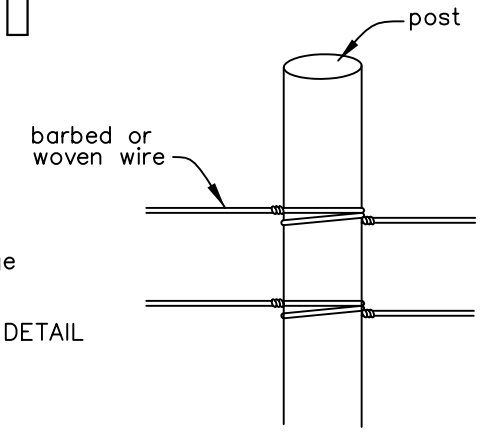
| NEBRASKA STANDARD DRAWING | WIRE FENCE BRACES | STANDARD DRAWING NO. NE500–40–001<br>APPROVED BY: TGH<br>DRAWN BY: RXS<br>Drawing revised: 12/06 |
|---|---|---|



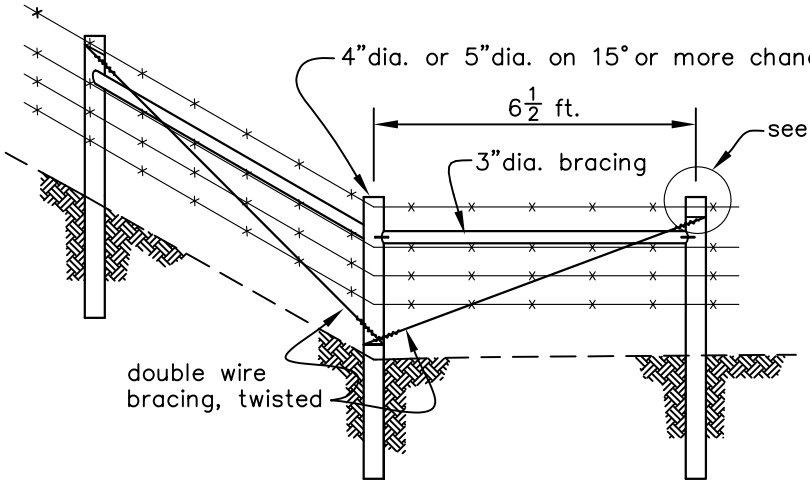

## LINE BRACE




## LINE BRACE




## DETAIL




## CORNER BRACE

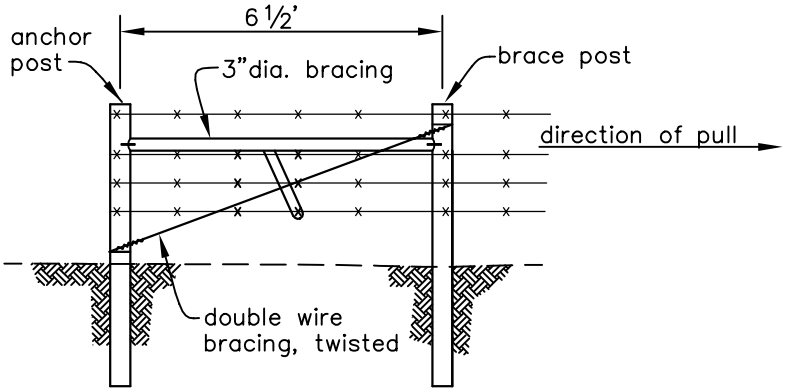
1. Double wrap all bracing.
2. All brace posts to be 8' long, 3½ ft. min. embedment.

Drawing not to scale. Standardized drawing must be adapted to the specific site.

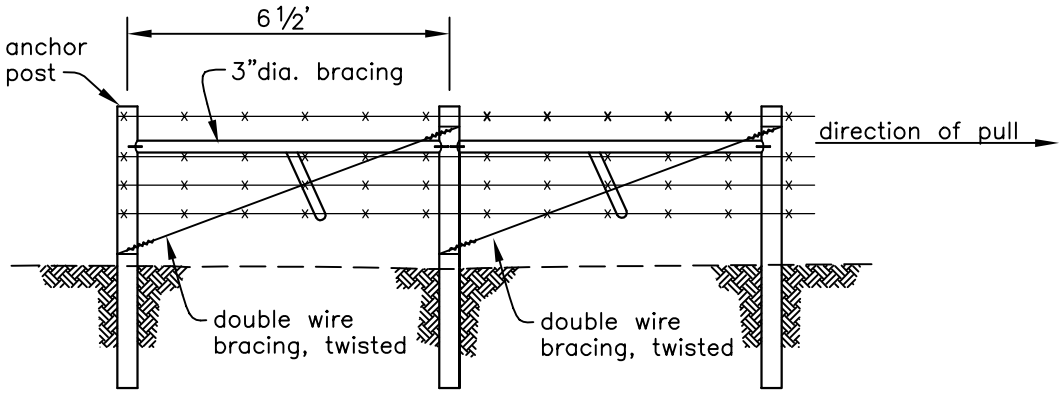
Modified from Washington LSK–0252.dwg

| | JOB CLASS | Date |
|---|---|---|
| | CAD FILE NO. NE500–40–001.dwg | Designed |
| | SHEET OF | Drawn |
| | | Checked |
| U.S.D.A. – NATURAL RESOURCES CONSERVATION SERVICE | | Approved |

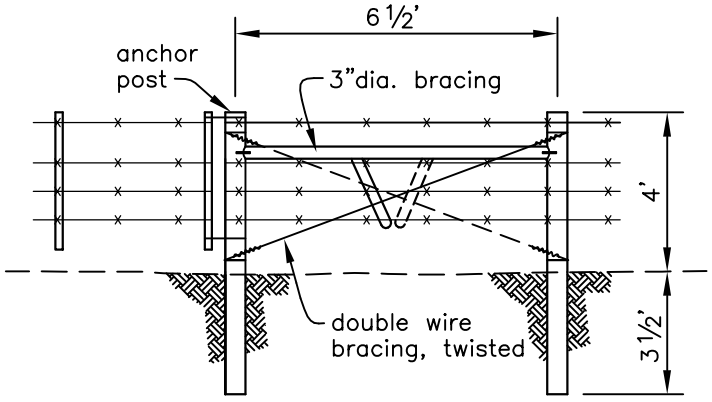
| NEBRASKA STANDARD DRAWING | WIRE FENCE BRACES | STANDARD DRAWING NO. NE500–40–002<br>APPROVED BY: TGH<br>DRAWN BY: RXS<br>ISSUE DATE: 07/01 |
|---|---|---|




## 1–SPAN END




## 2–SPAN END




## GATE BRACE

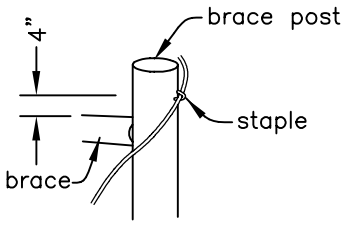
1. Double wrap all bracing.
2. All brace posts to be 8' long, 3½" embedment.

Drawing not to scale. Standardized drawing must be adapted to the specific site.

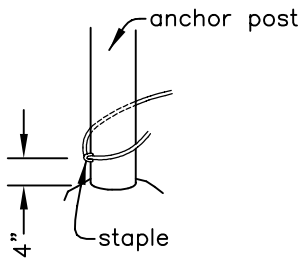
Modified from Washington LSK–0251.dwg

| | JOB CLASS | Date |
|---|---|---|
| | CAD FILE NO. NE500–40–002.dwg | Designed |
| | SHEET OF | Drawn |
| | | Checked |
| U.S.D.A. – NATURAL RESOURCES CONSERVATION SERVICE | | Approved |

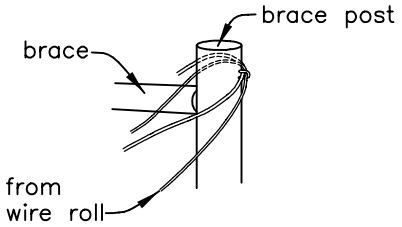
| NEBRASKA STANDARD DRAWING | WIRE FENCE BRACES | STANDARD DRAWING NO. NE500–40–003<br>APPROVED BY: TGH<br>DRAWN BY: RXS<br>ISSUE DATE: 07/01 |
|---|---|---|



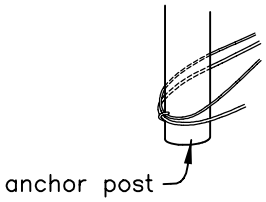

Drive staple about half its length into brace post about 4 inches above brace member on opposite side from brace.



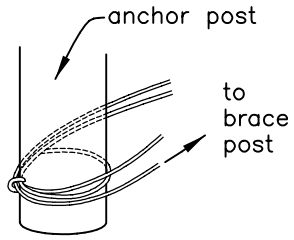

Drive staple in similar manner on anchor post about 4 inches from ground line opposite side of brace.



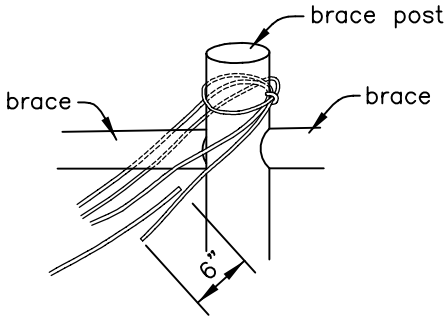

Unroll enough brace wire for two complete loops around anchor and brace post.



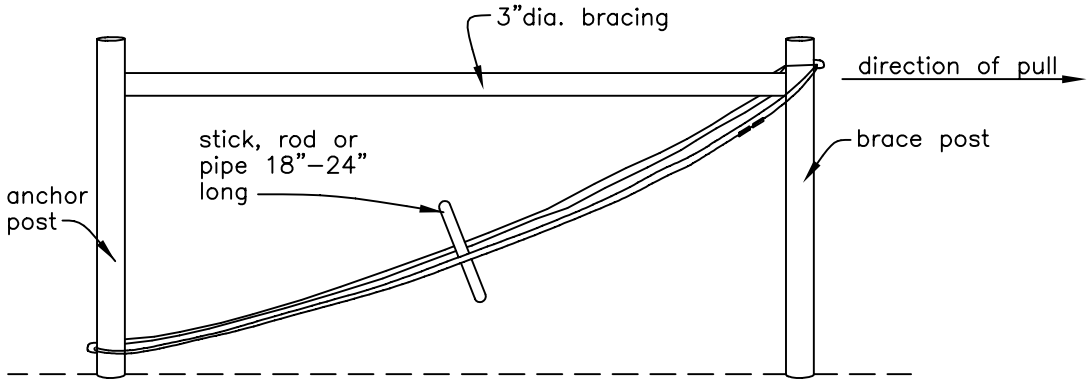

Thread end of brace wire through one staple and then through the other. Repeat to form three wire strands.

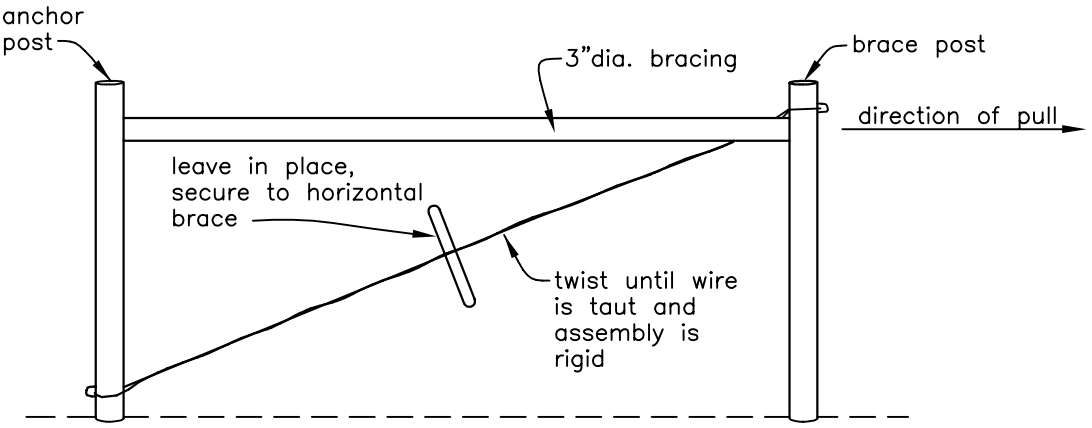



Wrap wire around anchor post and return toward brace post.




Cut brace wire from roll allowing enough wire to wrap around brace post and extend 6 to 12 inches past other wire end. Make splice.




## BRACE

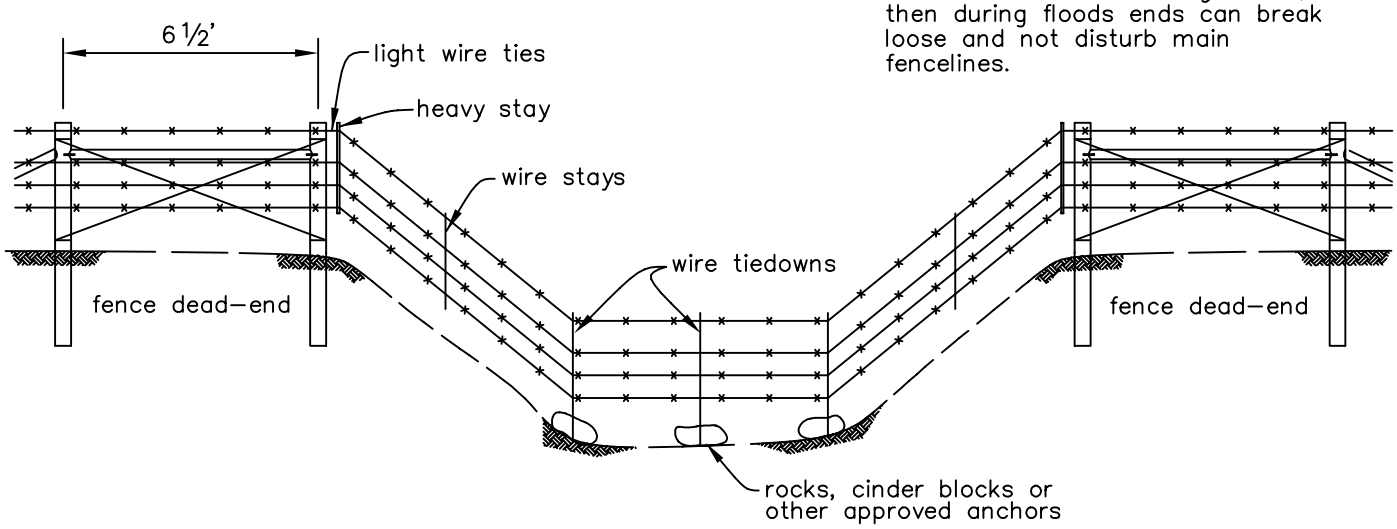
Drawing not to scale. Standardized drawing must be adapted to the specific site.

Modified from Washington LSK–0250.dwg

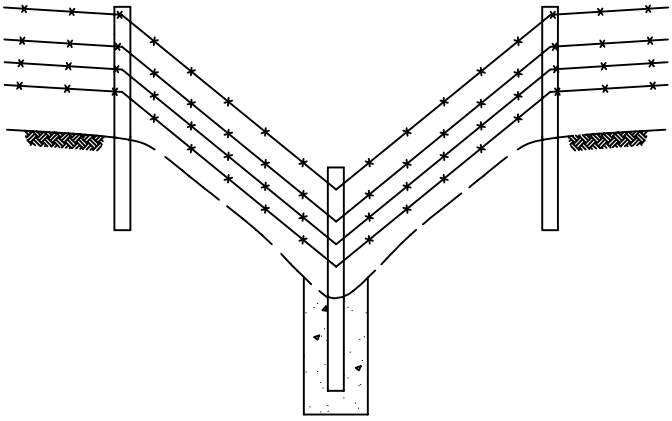
| | JOB CLASS | Date |
|---|---|---|
| | CAD FILE NO. NE500–40–003.dwg | Designed |
| | SHEET OF | Drawn |
| | | Checked |
| U.S.D.A. – NATURAL RESOURCES CONSERVATION SERVICE | | Approved |

| NEBRASKA STANDARD DRAWING | BARBED WIRE FENCE CROSSINGS | STANDARD DRAWING NO. NE500–50–001<br>APPROVED BY: TGH<br>DRAWN BY: RXS<br>ISSUE DATE: 07/01 |
|---|---|---|

Panels of woven wire or board can be used. Panels built separate and tied to fence with light wire, then during floods ends can break loose and not disturb main fencelines.

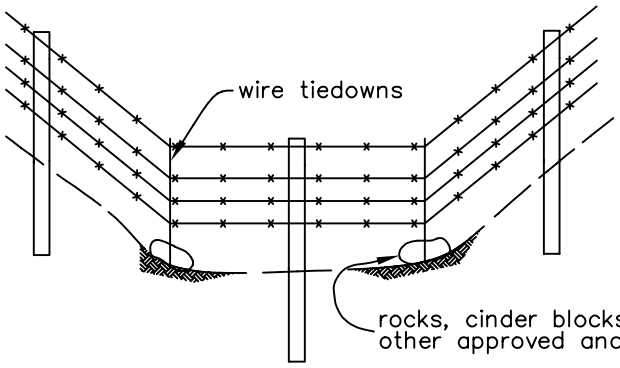



## DETACHABLE WIRE PANEL WITH ANCHORS FOR DEEP WASHES AND LIVE STREAMS

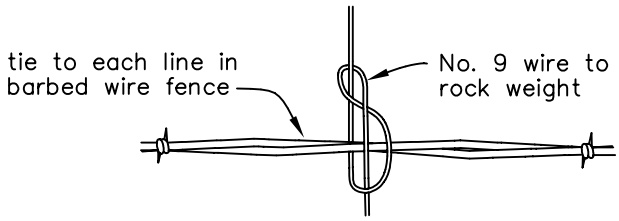


All corner and brace posts shall be 8' long and 3 1/2' embedment.

## FENCE POST ANCHOR




## ANCHORS IN DRY DRAWS




## TIEDOWN DETAIL

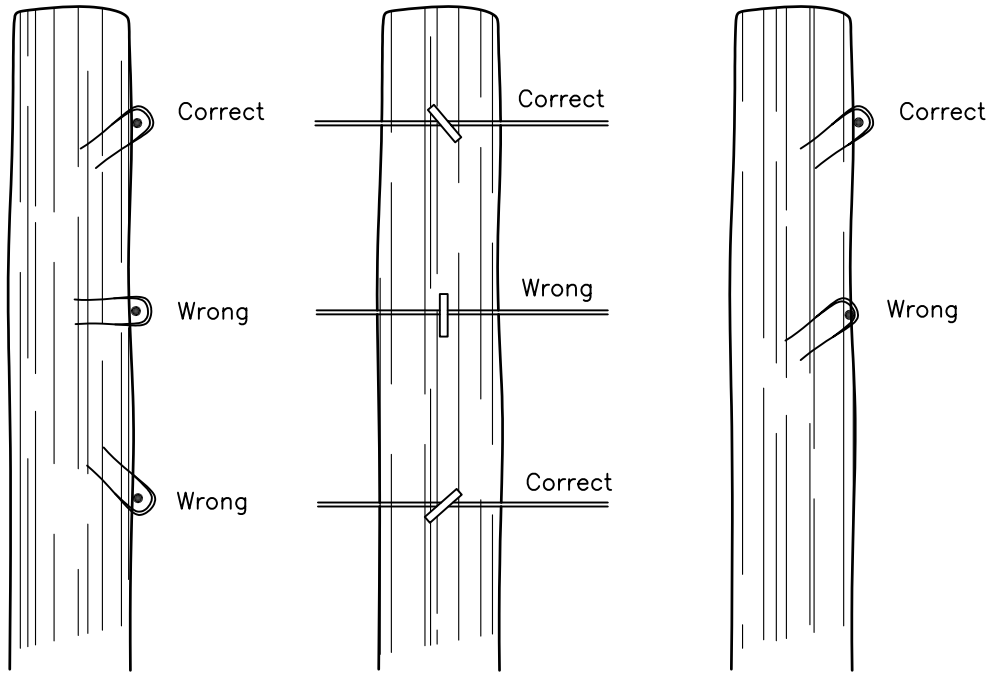
Modified from Washington LSK–0210.dwg

Drawing not to scale. Standardized drawing must be adapted to the specific site.

| | JOB CLASS | Date |
|---|---|---|
| | CAD FILE NO. NE500–50–001.dwg | Designed _____ _____<br>Drawn _____ _____ |
| | SHEET OF | Checked _____ _____<br>Approved _____ _____ |

U.S.D.A. – NATURAL RESOURCES CONSERVATION SERVICE

| NEBRASKA STANDARD DRAWING | STAPLES AND WIRE ATTACHMENT | STANDARD DRAWING NO. NE500–60–001<br>APPROVED BY: TGH<br>DRAWN BY: RXS<br>Drawing revised: 9/07 |
|---|---|---|



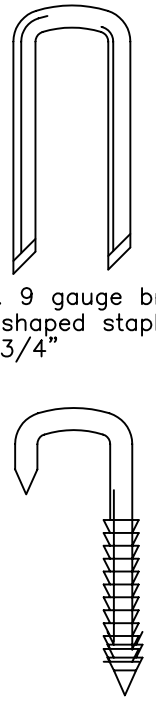

(WIRE PULL IS DOWN)

DRIVE STAPLES AT ANGLE

DO NOT DRIVE STAPLES PARALLEL TO SIDE OF POST

LEAVE WIRE LOOSE IN STAPLE

## ATTACHMENT



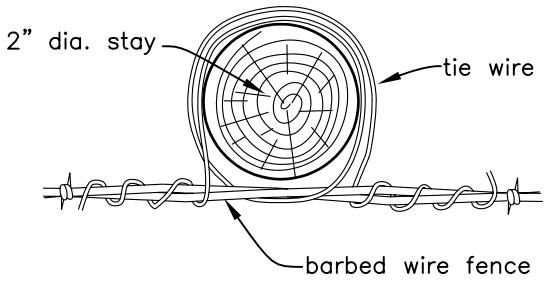
a) No. 9 gauge bright U–shaped staple, 1–3/4"

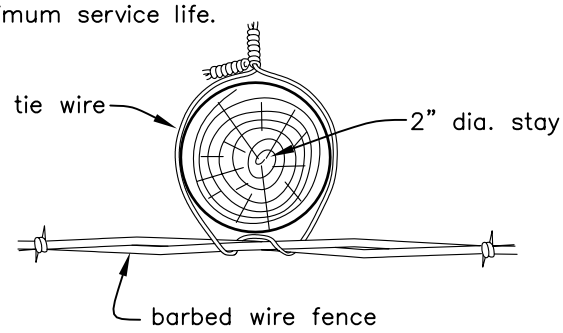
b) No. 9 gauge bright L–shaped deformed shank staple, 1–1/2"

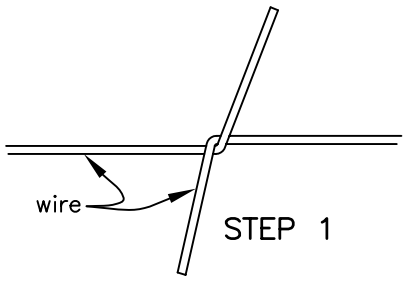
## STAPLES

RECOMMENDATIONS ON FASTENERS FOR TREATED WOOD

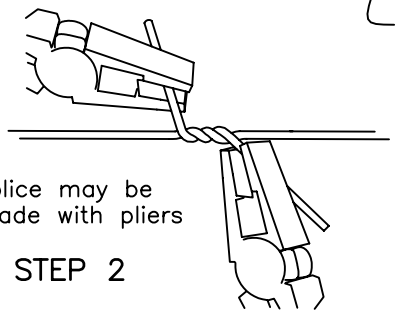
Fasteners for ACQ or CA treated wood should be galvanized in accordance with ASTM A153. Stainless steel can still be used for maximum service life.



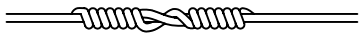




STEP 1



splice may be made with pliers

STEP 2



completed splice

STEP 3

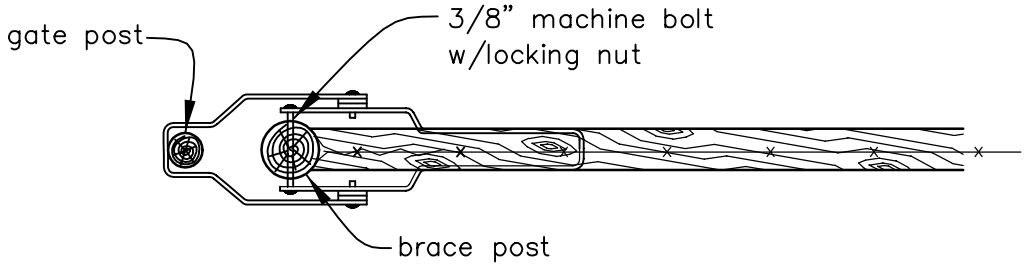
## "WESTERN UNION" SPLICE

Drawing not to scale. Standardized drawing must be adapted to the specific site.

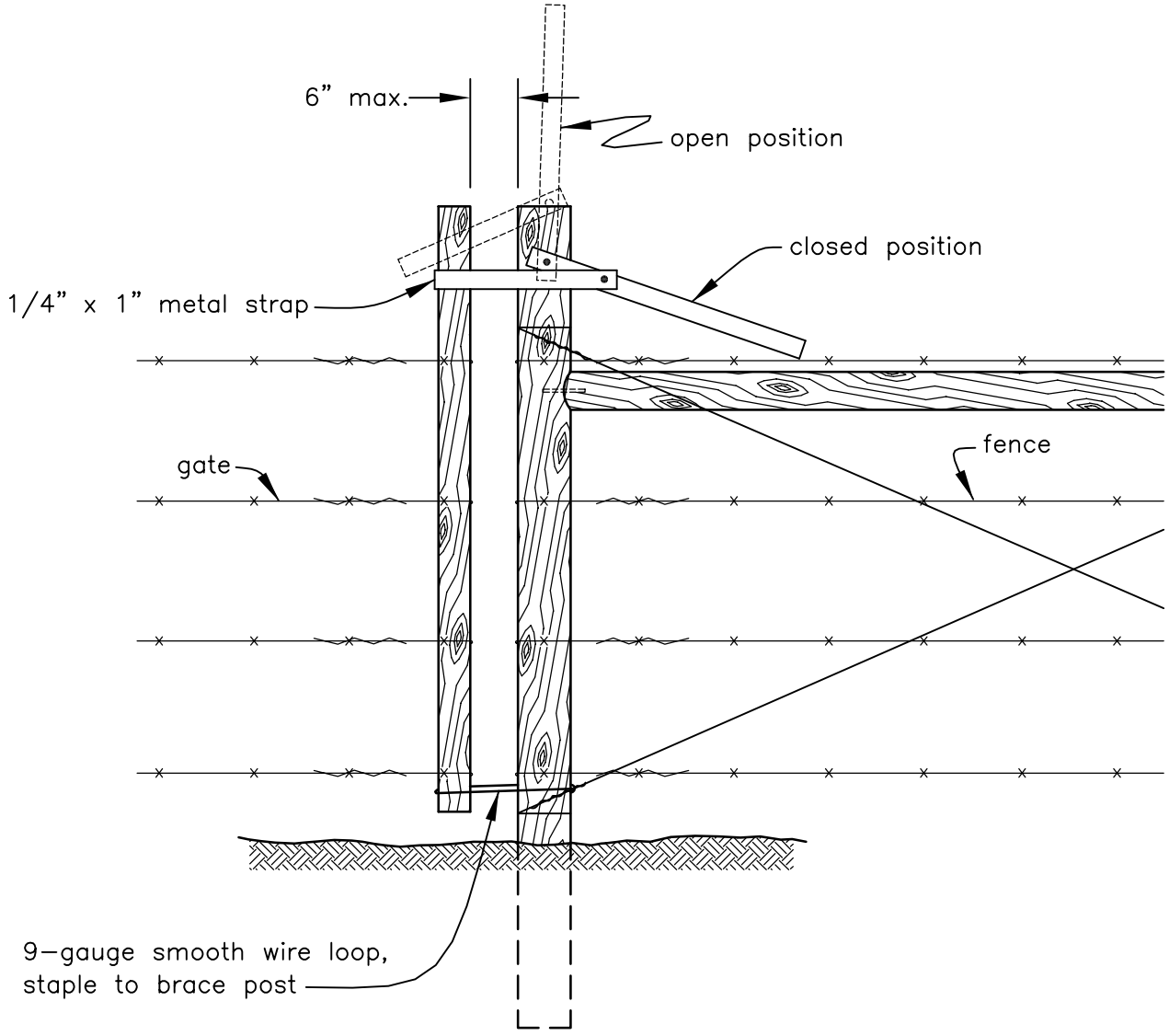
Modified from Washington LSK–0001.dwg

| | JOB CLASS | Date |
|---|---|---|
| | CAD FILE NO. NE500–60–001.dwg | Designed |
| | SHEET OF | Drawn |
| | | Checked |
| U.S.D.A. – NATURAL RESOURCES CONSERVATION SERVICE | | Approved |

| NEBRASKA STANDARD DRAWING | METAL GATE CLOSER | STANDARD DRAWING NO. NE500–60–002<br>APPROVED BY: TGH<br>DRAWN BY: RXS<br>ISSUE DATE: 07/01 |
|---|---|---|




## PLAN VIEW
(closed position)



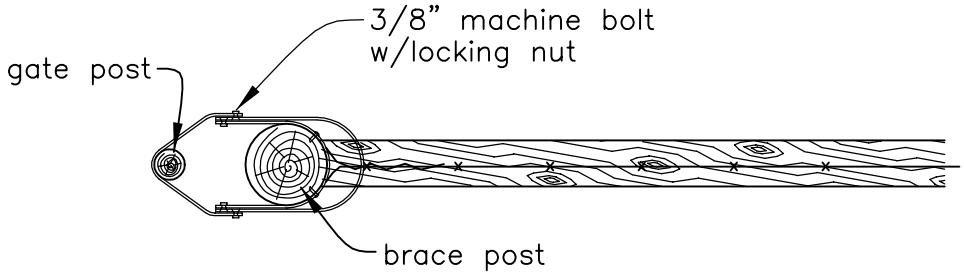

## ELEVATION

Drawing not to scale. Standardized drawing must be adapted to the specific site.

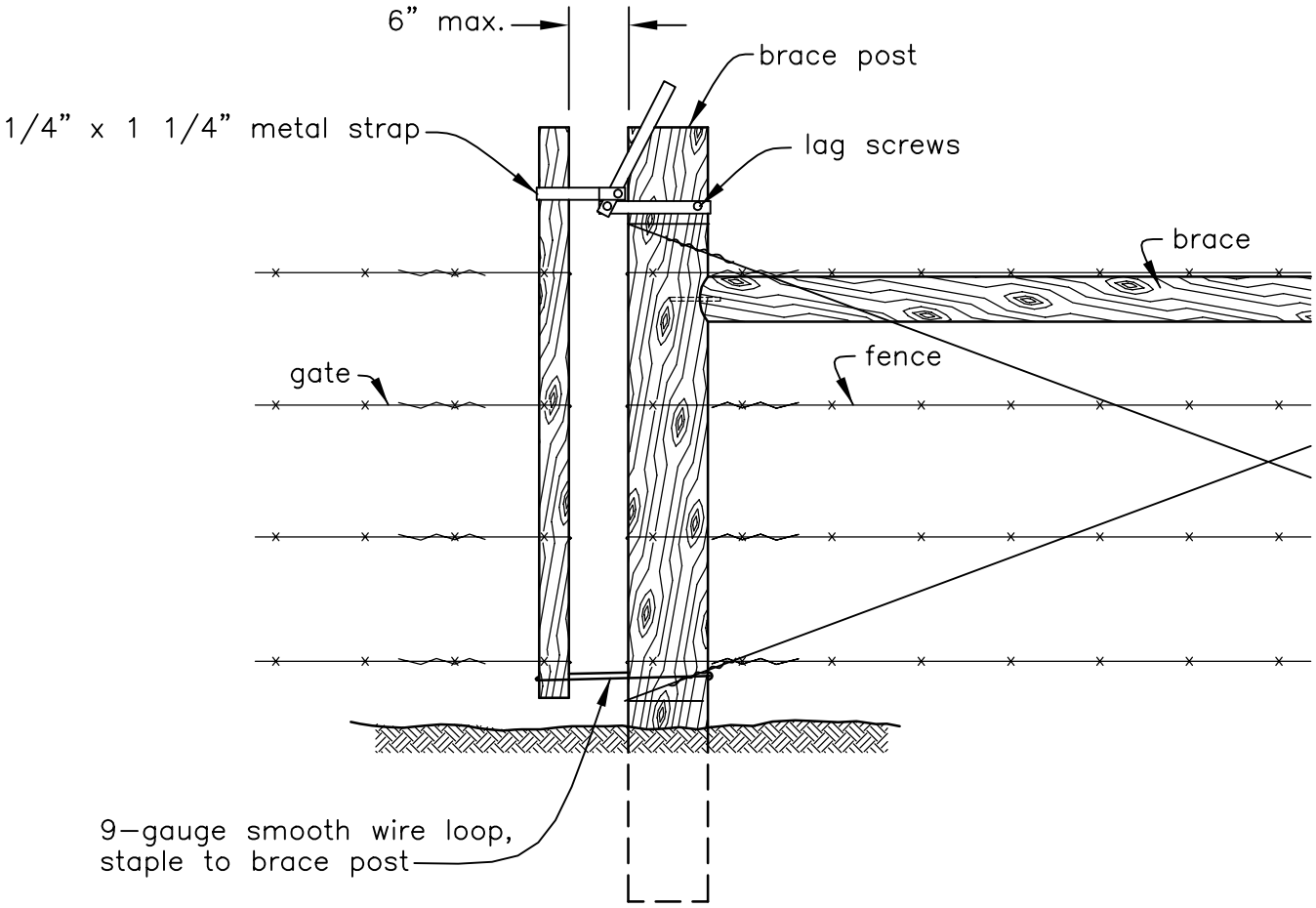
Modified from Washington LSK–0041.dwg

| | JOB CLASS | Date |
|---|---|---|
| | CAD FILE NO. NE500–60–002.dwg | Designed _____ _____<br>Drawn _____ _____ |
| | SHEET OF | Checked _____ _____ |
| U.S.D.A. – NATURAL RESOURCES CONSERVATION SERVICE | | Approved _____ _____ |

| NEBRASKA STANDARD DRAWING | METAL GATE CLOSER | STANDARD DRAWING NO. NE500–60–003<br>APPROVED BY: TGH<br>DRAWN BY: RXS<br>ISSUE DATE: 07/01 |
|---|---|---|




## PLAN VIEW




## ELEVATION

Drawing not to scale. Standardized drawing must be adapted to the specific site.

Modified from Washington LSK–0041.dwg

| | JOB CLASS | Date |
|---|---|---|
| | CAD FILE NO. NE500–60–003.dwg | Designed |
| | SHEET OF | Drawn |
| | | Checked |
| U.S.D.A. – NATURAL RESOURCES CONSERVATION SERVICE | | Approved |